	Search Terms
1	ADDED
2	ADDEDS
3	ADDER
4	ADDERS
5	ADDING
6	CROSS-CORRELATED
7	CROSS-CORRELATING
8	CROSS-CORRELATION
9	CROSS-CORRELATIONS
10	CROSSCORRELATED
11	CROSSCORRELATING
12	CROSSCORRELATION
13	CROSSCORRELATIONS
14	DFT
15	DFTS
16	DOMAIN
17	DOMAINS
18	FFT
19	FFTS
20	FILTER
21	FILTERED
22	FILTEREDS
23	FILTERING
24	FILTERINGS
25	FILTERS
26	FLUID
27	FLUIDS
28	FOURIER
29	FOURIERS
30	FREQUENCIES
31	FREQUENCY
32	FREQUENCYS
33	LEAK
34	LEAKING
35	LEAKINGS
36	LEAKS
37	LIQ
38	LIQS

	Total	USPAT	US-PGPUB	EPO	JPO	Derwent	IBM TDB	USOCR
1	1856473							
2	5							
3	135482							
4	33240							
5	1083256							
6	1504							
7	1081							
8	7048							
9	834							
10	78							
11	75							
12	498							
13	60							
14	4735							
15	353							
16	164408							
17	71410							
18	14930							
19	1272							
20	1094413							
21	451209							
22	1							
23	305309							
24	303							
25	336478							
26	1208681							
27	268280							
28	59927							
29	25							
30	312051							
31	1467070							
32	51							
33	177179							
34	78497							
35	9							
36	66989							
37	311716							
38	11264							

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	Search Terms
39	LIQUID
40	LIQUIDS
41	PHASE
42	PHASES
43	PIPE
44	PIPES
45	SUM
46	SUMING
47	SUMMED
48	SUMMER
49	SUMMERS
50	SUMMING
51	SUMMINGS
52	SUMS
53	VECTOR
54	VECTORS
55	ADDINGS
56	(((((CROSSCORRELATING OR CROSSCORRELATED OR CROSS-CORRELATED OR CROSS-CORRELATION OR CROSSCORRELATION OR CROSS-CORRELATING OR CROSS-CORRELATION) AND (VECTOR SAME (SUMING OR SUMMED OR SUMMER OR SUMMING OR ADDER OR SUM OR ADDING OR ADDED))) AND ((PHASE SAME (FILTERING OR FILTERED OR FILTER)) SAME (DFT OR FFT OR FOURIER OR DOMAIN OR FREQUENCY))) AND (LEAKING OR LEAK OR PIPE OR FLUID OR LIQUID))

	Total	USPAT	US-PGPUB	EPO	JPO	Derwent	IBM TDB	USOCR
39	2070868							
40	262288							
41	1452041							
42	284480							
43	1047543							
44	346743							
45	413918							
46	82							
47	66877							
48	50521							
49	12960							
50	78712							
51	20							
52	39673							
53	256568							
54	130396							
55	25							
56	69	51	18	0	0	0	0	

	U	1	Document ID	Issue Date	Pages	Title	Current OR
1	☐	☐	US 20030210805 A1	20031113	15	Digitally watermarking holograms for identity documents	382/100
2	☒	☐	US 20030147538 A1	20030807	27	Reducing noise in audio systems	381/92
3	☒	☐	US 20030142289 A1	20030731	75	Methods of calibrating an imaging system using calibration beads	356/28
4	☒	☐	US 20030078734 A1	20030424	19	Adaptive seismic noise and interference attenuation method	702/14
5	☒	☐	US 20030036689 A1	20030220	74	Signal processing apparatus	600/323
6	☒	☐	US 20030002710 A1	20030102	116	Digital authentication with analog documents	382/100
7	☒	☐	US 20020193670 A1	20021219	40	Device and system for remote for in-clinic trans-abdominal/vaginal/cervica- l acquisition, and detection, analysis, and communication of maternal uterine and maternal and fetal cardiac and fetal brain activity from electrical signals	600/304
8	☒	☐	US 20020175849 A1	20021128	19	Method for locating a concealed object	342/22
9	☒	☐	US 20020136430 A1	20020926	102	Network linking method using information embedded in data objects that have inherent noise	382/100
10	☒	☐	US 20020128544 A1	20020912	95	Signal processing apparatus	600/323
11	☒	☐	US 20020122167 A1	20020905	78	Measuring the velocity of small moving objects such as cells	356/28.5
12	☒	☐	US 20020093641 A1	20020718	74	Measuring the velocity of small moving objects such as cells	356/28
13	☒	☐	US 20020079425 A1	20020627	90	Wide field imaging through turbulent media	250/201.9
14	☒	☐	US 20020078146 A1	20020620	58	Internet linking from audio and image content	709/203
15	☒	☐	US 20020077536 A1	20020620	95	Signal processing apparatus	600/323
16	☒	☐	US 20020032004 A1	20020314	42	Simultaneous two-way transmission of information signals in the same frequency band	455/22
17	☒	☐	US 20020029253 A1	20020307	59	Network linking method using information embedded in data objects that have inherent noise	709/217
18	☒	☐	US 20010033614 A1	20011025	20	Equaliser for digital communications systems and method of equalisation	375/229

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5	Image Doc. Displayed	PT
1	382/232		Lofgren, Neil E. et al.	☒	☐	☐	☐	☐	☐	☐	US 20030210805	☐
2	381/122; 381/91		Elko, Gary W.	☐	☐	☐	☐	☐	☐	☐	US 20030147538	☐
3	356/28.5		Ortyn, William E. et al.	☐	☐	☐	☐	☐	☐	☐	US 20030142289	☐
4			Ozbek, Ali	☐	☐	☐	☐	☐	☐	☐	US 20030078734	☐
5	600/336		Diab, Mohamed K. et al.	☐	☐	☐	☐	☐	☐	☐	US 20030036689	☐
6			Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐	US 20030002710	☐
7	600/511; 600/546		Garfield, Robert E. et al.	☐	☐	☐	☐	☐	☐	☐	US 20020193670	☐
8	342/192; 342/194; 342/196; 342/27		Arndt, G. Dickey et al.	☐	☐	☐	☐	☐	☐	☐	US 20020175849	☐
9			Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐	US 20020136430	☐
10	600/336; 600/509; 600/529		Diab, Mohamed K. et al.	☐	☐	☐	☐	☐	☐	☐	US 20020128544	☐
11			Riley, James K. et al.	☐	☐	☐	☐	☐	☐	☐	US 20020122167	☐
12			Ortyn, William E. et al.	☐	☐	☐	☐	☐	☐	☐	US 20020093641	☐
13	250/201.1		Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐	US 20020079425	☐
14	709/245		Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐	US 20020078146	☐
15	600/336		Diab, Mohamed K. et al.	☐	☐	☐	☐	☐	☐	☐	US 20020077536	☐
16	455/14		Widrow, Bernard	☐	☐	☐	☐	☐	☐	☐	US 20020032004	☐
17	705/57; 709/246		Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐	US 20020029253	☐
18	375/347		Hudson, John E.	☐	☐	☐	☐	☐	☐	☐	US 20010033614	☐

	U	1	Document ID	Issue Date	Pages	Title	Current OR
19	☒	☐	US 6651007 B2	20031118	20	Adaptive seismic noise and interference attenuation method	702/17
20	☒	☐	US 6650917 B2	20031118	95	Signal processing apparatus	600/323
21	☒	☐	US 6591670 B1	20030715	29	Device for detecting wheel speed signal frequency	73/146
22	☒	☐	US 6590998 B2	20030708	58	Network linking method using information embedded in data objects that have inherent noise	382/100
23	☒	☐	US 6532061 B2	20030311	71	Measuring the velocity of small moving objects such as cells	356/28
24	☒	☐	US 6507391 B2	20030114	78	Measuring the velocity of small moving objects such as cells	356/28
25	☒	☐	US 6501414 B2	20021231	18	Method for locating a concealed object	342/22
26	☒	☐	US 6446008 B1	20020903	19	Adaptive seismic noise and interference attenuation method	702/17
27	☒	☐	US 6429415 B1	20020806	87	Wide field imaging through turbulent media	250/208.1
28	☒	☐	US 6408331 B1	20020618		Computer linking methods using encoded graphics	709/217
29	☒	☐	US 6390984 B1	20020521		Method and apparatus for locking sample volume onto moving vessel in pulsed doppler ultrasound imaging	600/453
30	☒	☐	US 6356555 B1	20020312		Apparatus and method for digital data transmission using orthogonal codes	370/441
31	☒	☐	US 6344640 B1	20020205		Method for wide field distortion-compensated imaging	250/201.9
32	☒	☐	US 6324573 B1	20011127		Linking of computers using information steganographically embedded in data objects	709/217
33	☒	☐	US 6312384 B1	20011106		Method and apparatus for flow imaging using golay codes	600/443
34	☒	☐	US 6286036 B1	20010904		Audio- and graphics-based linking to internet	709/217
35	☒	☐	US 6236872 B1	20010522		Signal processing apparatus	600/323
36	☒	☐	US 6210332 B1	20010403		Method and apparatus for flow imaging using coded excitation	600/443

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	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5	Image Doc. Displayed	PT
19	367/45		Ozbek, Ali	☐	☐	☐	☐	☐	☐	☐	US 6651007	☐
20	600/336		Diab, Mohamed K. et al.	☐	☐	☐	☐	☐	☐	☐	US 6650917	☐
21			Umeno, Takaji et al.	☐	☐	☐	☐	☐	☐	☐	US 6591670	☐
22	709/217		Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐	US 6590998	☐
23	356/28.5; 356/39		Ortyn, William E. et al.	☐	☐	☐	☐	☐	☐	☐	US 6532061	☐
24	356/28.5; 356/39		Riley, James K. et al.	☐	☐	☐	☐	☐	☐	☐	US 6507391	☐
25	342/194; 342/27		Arndt, G. Dickey et al.	☐	☐	☐	☐	☐	☐	☐	US 6501414	☐
26	367/45		Ozbek, Ali	☐	☐	☐	☐	☐	☐	☐	US 6446008	☐
27	250/201.9		Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐	US 6429415	☐
28	380/28; 709/328		Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
29	600/455		Pan, Lihong et al.	☐	☐	☐	☐	☐	☐	☐		☐
30	370/442; 370/478; 370/479; 370/480; 370/503		Rakib, Selim Shlomo et al.	☐	☐	☐	☐	☐	☐	☐		☐
31	250/208.1		Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
32	345/749; 345/846; 380/28		Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
33	600/447		Chiao, Richard Yung	☐	☐	☐	☐	☐	☐	☐		☐
34	380/201; 709/313		Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
35	600/310		Diab, Mohamed K. et al.	☐	☐	☐	☐	☐	☐	☐		☐
36	128/916; 600/447		Chiao, Richard Yung et al.	☐	☐	☐	☐	☐	☐	☐		☐

	U	1	Document ID	Issue Date	Pages	Title	Current OR
37	☒	☐	US 6157850 A	20001205		Signal processing apparatus	600/323
38	☒	☐	US 6110522 A	20000829		Blood glucose monitoring system	427/2.11
39	☒	☐	US 6084227 A	20000704		Method and apparatus for wide field distortion-compensated imaging	250/201.9
40	☒	☐	US 6081735 A	20000627		Signal processing apparatus	600/336
41	☒	☐	US 6068597 A	20000530		Vibrational resonance ultrasonic Doppler spectrometer and imager	600/443
42	☒	☐	US 5980459 A	19991109		Ultrasound imaging using coded excitation on transmit and selective filtering of fundamental and (sub)harmonic signals on receive	600/447
43	☒	☐	US 5971095 A	19991026		Noise filtering method for seismic data	181/112
44	☒	☐	US 5867411 A	19990202		Kalman filter ionospheric delay estimator	708/300
45	☒	☐	US 5850481 A	19981215		Steganographic system	382/232
46	☒	☐	US 5841978 A	19981124		Network linking method using steganographically embedded data objects	709/217
47	☒	☐	US 5792073 A	19980811		System and method for acoustic response measurement in the ear canal	600/559
48	☒	☐	US 5757845 A	19980526		Adaptive spread spectrum receiver	375/152
49	☒	☐	US 5748763 A	19980505		Image steganography system featuring perceptually adaptive and globally scalable signal embedding	382/115
50	☒	☐	US 5743262 A	19980428		Blood glucose monitoring system	600/316

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	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5	Image Doc. Displayed	PT
37	600/336; 600/509; 600/529		Diab, Mohamed K. et al.	☐	☐	☐	☐	☐	☐	☐		☐
38	427/162; 427/164; 427/256; 427/287		Lepper, Jr., James M. et al.	☐	☐	☐	☐	☐	☐	☐		☐
39	356/121		Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
40	600/481; 600/508; 600/529		Diab, Mohamed K. et al.	☐	☐	☐	☐	☐	☐	☐		☐
41	600/459; 73/579; 73/584		Lin, Gregory Sharat	☐	☐	☐	☐	☐	☐	☐		☐
42	600/458		Chiao, Richard Yung et al.	☐	☐	☐	☐	☐	☐	☐		☐
43	367/43; 367/45		Ozbek, Ali	☐	☐	☐	☐	☐	☐	☐		☐
44	375/232; 375/346		Kumar, Rajendra	☐	☐	☐	☐	☐	☐	☐		☐
45	382/181		Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
46	101/483; 345/760; 380/28; 713/162; 713/176; 713/201		Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
47	73/585		Keefe, Douglas H.	☐	☐	☐	☐	☐	☐	☐		☐
48	370/342		Fukawa, Kazuhiko et al.	☐	☐	☐	☐	☐	☐	☐		☐
49	348/460; 380/200; 380/241; 382/232; 382/276; 713/176		Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
50			Lepper, Jr., James M. et al.	☐	☐	☐	☐	☐	☐	☐		☐

	U	1	Document ID	Issue Date	Pages	Title	Current OR
51	☒	☐	US 5710834 A	19980120		Method and apparatus responsive to a code signal conveyed through a graphic image	382/232
52	☒	☐	US 5636292 A	19970603		Steganography methods employing embedded calibration data	382/232
53	☒	☐	US 5632272 A	19970527		Signal processing apparatus	600/323
54	☒	☐	US 5448053 A	19950905		Method and apparatus for wide field distortion-compensated imaging	250/201.9
55	☒	☐	US 5412200 A	19950502		Wide field distortion-compensating imaging system and methods	250/201.9
56	☒	☐	US 5410621 A	19950425		Image processing system having a sampled filter	382/260
57	☒	☐	US 5394322 A	19950228		Self-tuning controller that extracts process model characteristics	700/37
58	☒	☐	US 5293210 A	19940308		Detection of bacteria in blood culture bottles by time-resolved light scattering and absorption measurement	356/39
59	☒	☐	US 5053983 A	19911001		Filter system having an adaptive control for updating filter samples	708/306
60	☒	☐	US 4901576 A	19900220		Acoustic leak-detection system	73/592
61	☒	☐	US 4710708 A	19871201		Method and apparatus employing received independent magnetic field components of a transmitted alternating magnetic field for determining location	324/207.26
62	☒	☐	US 4686655 A	19870811		Filtering system for processing signature signals	367/59
63	☒	☐	US 4581715 A	19860408		Fourier transform processor	708/403

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5	Image Doc. Displayed	PT
51	380/202; 380/243; 380/55; 382/244; 382/248; 434/315; 434/316		Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
52	235/382; 235/494; 358/1.9; 358/434; 382/115; 382/254		Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
53	600/479		Diab, Mohamed K. et al.	☐	☐	☐	☐	☐	☐	☐		☐
54	356/121		Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
55	356/121		Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
56	382/263; 708/300		Hyatt, Gilbert P.	☐	☐	☐	☐	☐	☐	☐		☐
57	700/32; 700/38; 700/42		Hansen, Peter D.	☐	☐	☐	☐	☐	☐	☐		☐
58	356/338; 435/34; 435/808		Berndt, Klaus W.	☐	☐	☐	☐	☐	☐	☐		☐
59	708/307; 708/321		Hyatt, Gilbert P.	☐	☐	☐	☐	☐	☐	☐		☐
60	73/588		Rademacher, Paul E.	☐	☐	☐	☐	☐	☐	☐		☐
61	324/326; 342/459; 701/207		Rorden, Louis H. et al.	☐	☐	☐	☐	☐	☐	☐		☐
62	367/41; 367/43; 702/17; 708/3; 708/300; 708/422		Hyatt, Gilbert P.	☐	☐	☐	☐	☐	☐	☐		☐
63			Hyatt, Gilbert P.	☐	☐	☐	☐	☐	☐	☐		☐

	U	1	Document ID	Issue Date	Pages	Title	Current OR
64	☒	☐	US 4553221 A	19851112		Digital filtering system	708/308
65	☒	☐	US 4553213 A	19851112		Communication system	332/185
66	☒	☐	US 4491930 A	19850101		Memory system using filterable signals	708/3
67	☒	☐	US 4244026 A	19810106		Velocity measuring correlation sonar	702/143
68	☒	☐	US 4188610 A	19800212		Method of and apparatus for the generation and transmission of signals for echolocation and other signalling purposes, such as in geophysical exploration	367/14
69	☒	☐	US 3568188 A	19710302		CONTINUOUS WAVE RADAR WITH MEANS FOR INDICATING MOVING TARGET DIRECTION	342/109

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5	Image Doc. Displayed	PT
64	702/17; 708/307; 708/422		Hyatt, Gilbert P.	☐	☐	☐	☐	☐	☐	☐		☐
65			Hyatt, Gilbert P.	☐	☐	☐	☐	☐	☐	☐		☐
66			Hyatt, Gilbert P.	☐	☐	☐	☐	☐	☐	☐		☐
67	367/89		Dickey, Jr., Frank R.	☐	☐	☐	☐	☐	☐	☐		☐
68	367/42		Nelson, David E.	☐	☐	☐	☐	☐	☐	☐		☐
69	342/114; 342/138; 342/200; 342/205		Fishbein, William et al.	☐	☐	☐	☐	☐	☐	☐		☐

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	Search Terms
1	KIMBER-IAN-D
2	ALCOCK-ROBERT
3	(((KIMBER-IAN-D.IN.) OR (ALCOCK-ROBERT.IN.))

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	Total	USPAT	US-PGPUB	EPO	JPO	Derwent	IBM TDB	USOCR
1	3							
2	2							
3	5	3	0	2	0	0	0	

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	U	1	Document ID	Issue Date	Pages	Title	Current OR
1	☐	☐	US 5047774 A	19910910	4	Radio frequency transmission and reception system	342/15
2	☒	☐	US 4914674 A	19900403	6	Signal generator	375/132
3	☒	☐	US 4517679 A	19850514	12	Communication over noisy lines	375/259
4	☒	☐	WO 9742980 A1	19971120		METHODS OF TERMINAL STERILIZATION OF BIOLOGICAL PRODUCTS	
5	☒	☐	WO 9422305 A1	19941013		DISINFECTANT COMPOSITIONS	

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	Current XRef	Retrieval Classif	Inventor	S	C	P.	2	3	4	5	Image Doc. Displayed	PT
1	342/174		Kimber, Ian D. et al.	☒	☐	☐	☐	☐	☐	☐	US 5047774	☐
2	331/78; 370/478		Kimber, Ian D. et al.	☐	☐	☐	☐	☐	☐	☐	US 4914674	☐
3	375/343; 375/367		Clark, Duncan G. D. et al.	☐	☐	☐	☐	☐	☐	☐	US 4517679	☐
4			KAMPINGA, JAAP et al.	☐	☐	☐	☐	☐	☐	☐		☐
5			BELLAMY, KATHRYN et al.	☐	☐	☐	☐	☐	☐	☐		☐